PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION	See Form PCT/IPEA/416				
B03/0145PC						
International application No.	International filing date (day/mont					
PCT/EP2004/003108	24.03.2004	25.03.2003				
International Patent Classification (IPC) or national classification and IPC						
Applicant						
BASF AKTIENGESELLSCH	AFT					
This report is the international prelir under Article 35 and transmitted to the		hed by this International Preliminary Examining Authority				
2. This REPORT consists of a total of		ets, including this cover sheet.				
3. This report is also accompanied by A		-				
a. (sent to the applicant and	to the International Bureau) a total	of 4 sheets, as follows:				
sheets of the descrip	otion, claims and/or drawings which	have been amended and are the basis for this report and/or				
instructions).	ctifications authorized by this Auth	ority (see Rule 70.16 and Section 607 of the Administrative				
the disclosure in the		uthority considers contain an amendment that goes beyond as indicated in item 4 of Box No. I and the Supplemental				
Box.						
b (sent to the International	Bureau only) a total of (indicate type	e and number of electronic carrier(s))				
related the auto in commuta		, containing a sequence listing and/or tables				
	related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).					
4. This report contains indications relati	ing to the following items:					
Box No. I Basis of the	e report					
Box No. II Priority						
Box No. III Non-estable	ishment of opinion with regard to n	ovelty, inventive step and industrial applicability				
Box No. IV Lack of un	Box No. IV Lack of unity of invention					
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
Box No. VI Certain doo	cuments cited					
Box No. VII Certain def	Box No. VII Certain defects in the international application					
Box No. VIII Certain obs	ox No. VIII Certain observations on the international application					
Date of submission of the demand Date of completion of this report						
		-				
Name and mailing address of the IPEA/EP		officer				
Facsimile No.	Telephone	No				

Translation

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/EP2004/003108

Box	No. I Basis of t	he report			
1.	 With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item. 				
		ed on translations from the original langua uage of a translation furnished for the purp		,	
	internationa	al search (Rule 12.3 and 23.1(b))			
	publication	of the international application (Rule 12.4)		
	internation	al preliminary examination (Rule 55.2 and	or 55.3)		
2.	receiving Office in resthis report):	nents of the international application, this ponse to an invitation under Article 14 ar application as originally filed/furnished			
	the description:				
	pages <u>1-12</u>			as originally filed/furnished	
	pages*		received by this Authority on		
	pages*		received by this Authority on		
	the claims:				
	nos.			as originally filed/furnished	
	nos.*		as amended (togethe	r with any statement) under Article 19	
	nos.* 4-12			25.01.2005 with the	
	nos.* 1-3			14.06.2005 with the	
			_ received by this Authority on	letter of 07.00.2003	
	the drawings:				
	sheets			as originally filed/furnished	
	sheets*		received by this Authority on		
	sheets*		received by this Authority on		
	a sequence listin	g and/or any related table(s) – see Supplen	nental Box Relating to Sequence L	isting.	
3.	The amendment	s have resulted in the cancellation of:			
	the descrip	otion, pages			
	the claims	nos.			
Į					
4.	/	been established as if (some of) the amen			
"		considered to go beyond the disclosure as f	•	·	
Ì	the descri	otion, pages			
	the claims	, nos			
	the drawing	ngs, sheets/figs			
		nce listing (specify):			
<u>_</u>		e or all of those sheets may be marked "su			

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2004/003108

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1.	Statement			
	Novelty (N)	Claims	1-12	YES
		Claims		NO
	Inventive step (IS)	Claims	1-12	YES
i		Claims		NO
	Industrial applicability (IA)	Claims	1-12	YES
		Claims		NO
2	Citations and explanations (Rule	70.7)		

Reference is made to the following documents:

- D1: US-A-2 976 247 (TRUITT JAMES K) 21 March 1961 (1961-03-21)
- WO 02/08354 A (BASF AG; WENDEROTH BERND (DE); D2: SCHAEKER KARLHEINZ (DE)) 31 January 2002 (2002-01-31)
- The present application meets the requirements of 1. PCT Article 33(1) because the subject matter of claims 1-12 is novel (PCT Article 33(2)).
- 1.1 Document D2 discloses (the references between parentheses refer to that document) antifreeze concentrates based on alkylene glycols or derivatives thereof or on glycerol, containing a) 0.05 to 10 wt.%, relative to the total quantity of concentrate, of one or more carboxylic acid amides and/or sulphonic acid amides, b) 0.05 to 5 wt.%, relative to the total quantity of concentrate, of one or more aliphatic, cycloaliphatic or aromatic amines with 2 to 15 C atoms, which may also contain ether oxygen atoms or hydroxyl groups,

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

and/or c) 0.05 to 5 wt.%, relative to the total quantity of concentrate, of one or more monocyclic or bicyclic, unsaturated or partially unsaturated heterocycles with 4 to 10 C atoms, which may be benzanellated and may carry additional functional groups (claims 1 and 2). The alkylene glycols preferably consist of ethylene glycol or propylene glycol or of mixtures of alkylene glycols or of glycerol with ethylene glycol or propylene glycol, which each contain at least 95 wt.% ethylene glycol and/or propylene glycol and/or glycerol (claim 6).

Also claimed are ready-to-use aqueous coolant compositions (claim 7) and the use of the antifreeze concentrates to produce aqueous coolant compositions for magnesium and/or aluminium.

Monoethylene glycol usually contains a certain amount of diethylene glycol (see D1, examples 1 and 2). As a result of the absence of diethylene glycol, the subject matter of claims 1, 11 and 12 is novel over D2.

2. In the compositions as per D2, polyethylene glycol is present only as an impurity. No effect of this compound is mentioned. It is therefore not obvious to a person skilled in the art to use the claimed polyglycols in known antifreeze (concentrates) in order to improve the protection against corrosion of magnesium (see table 2 of the application). Claims 1 to 12 therefore involve an

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Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
	inventive step.
3.	The application is industrially applicable, since
	it can be used in the field of corrosion
	protection.